

ABSTRACT OF THE DISCLOSURE

A heat spreader module has a pedestal, a heat spreader member joined to the pedestal by a first active hard brazing material, an intermediate layer joined to the heat spreader member by a second active hard brazing material, an insulating board joined to the intermediate layer by a third active hard brazing material, and a circuit board joined to the insulating board by a fourth active hard brazing material. The first through fourth active hard brazing materials are supplied such that the active hard brazing materials have a thickness ranging from 3 to 20 μm when the components of the heat spreader module are joined together under pressure, and contain an active element in an amount ranging from 400 to 1000 $\mu\text{g}/\text{cm}^2$.